

Amendments to the Specification:

Please replace the Abstract with the following:

~~Titanium dioxide or a lithium titanate, especially mesoporous titanium dioxide or lithium titanate, can function as a negative electrode in an electrochemical cell in which the electrolyte is an aqueous solution containing lithium and hydroxide ions~~

A novel aqueous electrochemical cell having an electrolyte, which is an aqueous solution containing lithium and hydroxide ions, and having titanium dioxide or a lithium titanate, especially mesoporous titanium dioxide or lithium titanate, as the negative electrode. In accordance with the present invention, the titanium dioxide or lithium titanate is preferably in the form of a mesoporous material having a periodic arrangement of substantially uniformly sized pores of cross-section of the order of 10^{-8} to 10^{-9} m.